



Computer Programming



Objectives

- Understand how programs works.
- Able to write programs.
 - Following steps of requirements.
 - Design/code your own program to solve problems.



What are being taught?

- Fundamental of programming.
- Using Python language as a tool.
 - We are not really aiming to teach Python.
 - We aim to teach common mechanism among programming languages.
 - Use Python 3.



Why was Python chosen?

- It is relatively easy to learn, compared to other languages.
 - It has fewer syntax check.
- It is currently a very popular language used to develop software.



This course's nature

- Watch **VDO** in class (or before).
- Following examples + Do short exercise in class.
- Do additional exercises on **Grader**.
- **Additional homework** will be given every few weeks.



Software

- Google
 - Colab
- Stand alone
 - Thonny (Comes with Python)

colab

<https://colab.research.google.com/notebooks/intro.ipynb#recent=true>

What is Colaboratory?

Colaboratory, or "Colab", is a free, easy-to-use, and secure environment for running Python code. It provides zero configuration, free access to GPUs, and easy sharing. Whether you're a student or a professional, Colab has everything you need to get started below!

Getting started

document you are reading

example, here is a code snippet:

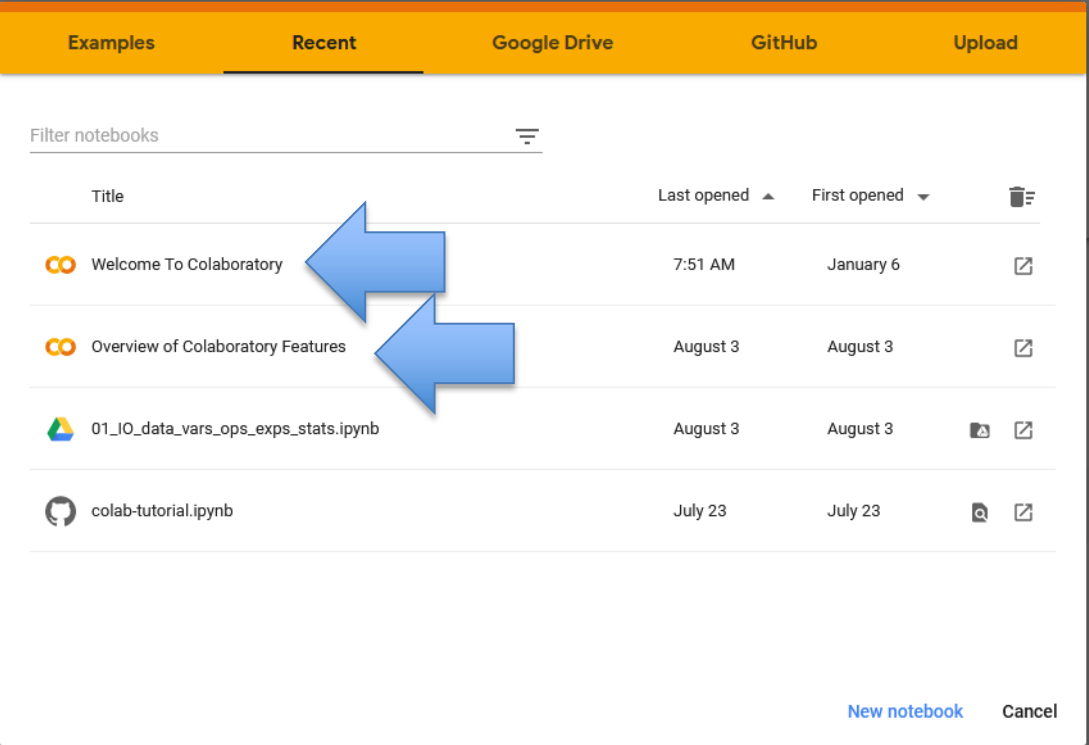
```
seconds_in_a_day = 24 * 60 * 60
seconds_in_a_week = 7 * seconds_in_a_day
seconds_in_a_year = 365 * seconds_in_a_week
```









6400

execute the code in the Command/Console

files that you define

04800



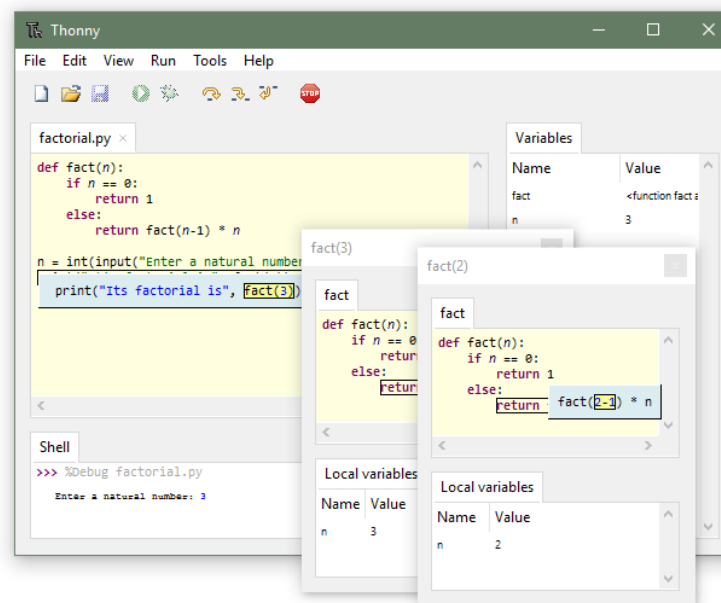
Examples	Recent	Google Drive	GitHub	Upload
Filter notebooks				
Title		Last opened ▲	First opened ▼	
	Welcome To Colaboratory	7:51 AM	January 6	
	Overview of Colaboratory Features	August 3	August 3	
	01_IO_data_vars_ops_exps_stats.ipynb	August 3	August 3	
	colab-tutorial.ipynb	July 23	July 23	
		New notebook Cancel		

Thonny

<https://thonny.org/>

Thonny
Python IDE for beginners

Download version **3.3.13** for
[Windows](#) • [Mac](#) • [Linux](#)





advice

- Organize your time.
- Think while you listen.
- Ask question ASAP.
 - Next week's class will be built on this week, and so on.
 - Ask lecturer or teaching assistant.
 - Discord
 - <https://discord.gg/urCxzG679h>
 - Facebook
 - 2190101 Programming (2022/1)
 - <https://www.facebook.com/groups/615580593229177>
 - Code a lot!